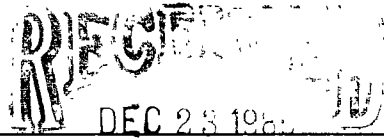


mine file
Harden
Cline
Summers

Date: December 18, 1986
Office: Devils Slide, Utah



DIVISION OF
OIL, GAS & MINING

IDEAL

To: Mr. L. B. Giles, Plant Manager
From: Gordon Stephens, Quarry Supervisor
Subject: Visit by State of Utah, Dept of Natural Resources Personnel

cc: File

Dear Bryant,

On the afternoon of December 16, 1986, Chad Green and myself met with Rick Summers, Hydrologist, David Cline, Hydrologist, and Randy Harden, Engineer, from the State Natural Resource Department. The purpose of their visit was to field check the drainage areas and catch basins that we had included as part of our mine permit application. This was a cordial, productive meeting with the following recommendations being made:

1. Replace a small section of berm at the point by the siren that had been removed to facilitate the survey crew during our recent plant survey.
2. Improve the rock berm on the haul road at two locations where water had gone over the bank:
 - a. Down by the "minefield" area across from Dr. High's old home.
 - b. Up by the bend toward the cap house where we had widened the haul road bend.
3. Construct an additional 4-5 foot rock berm down by the river directly below the points mentioned in #2 that would connect onto our existing catch basins and help to contain any run-off at these locations. This work would have to be done in the summer when the water table was low enough to permit us to take equipment down in this area.
4. It was suggested that we use a level and re-calculate the volume of our #11 catch basin below the dust dump in the "Boneyard". It was the consensus of opinion that the ground slope was steeper that we had allowed in our initial calculations and that the volume may well be less than we had initially shown.

5. Rick Summers commented that there may be a question on the method and formula used to make our run-off calculations. Rick indicated that he would double check Chad's figures and let us know if there was a different approach that they would prefer we use.

We have agreed to make these improvements as quickly as possible.

It was commented that they didn't see any problems with our drainage control methods in either the "Quarry Hollow area" or in the "Boneyard area" and that the above improvements should protect the area by the river below the haul road.

Randy indicated that he would send us copies of their comments and suggestions concerning this visit and also from the hydrology portion of our permit application.

Sincerely,

Gordon Stephens

Gordon Stephens
Quarry Supervisor

cc: Roy Stienmier
Dan Sommers
Chad Green
Rick Summers ✓